

**OPTICAL COMMUNICATION SYSTEM WITH VARIABLE ERROR
CORRECTION CODING**

5

ABSTRACT

A free space optical communication system with variable error correction includes an optical transmitter having a variable error correction encoder and an optical receiver having variable error correction decoder. The optical transmitter can encode the data to be transmitted with an error correction code having a data rate that varies depending on to the error rate or predicted error rate of the optical signal to optimize throughput of the data while maintaining accuracy.

10

15

TerabeamP020Final

09/23/2010 10:27:01